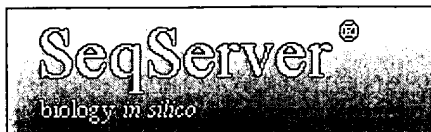


Docket No.: PF-0358-2 DIV  
USSN: 09/847,809  
Attachment No. 2 of 2

*ClustalW Results*

Sequences Help

Retrieval BLAST2 FASTA ClustalW GCG Assembly Prep Translation

Confidential -- Property of Incyte Genomics, Inc. SeqServer Version 4.6 Jan 2002

- ☐ 1601793CD1  
☐ g220582

## CLUSTAL W (1.7) Multiple Sequence Alignments

Sequence format is Pearson

Sequence 1: 1601793CD1 315 aa

Sequence 2: g220582 325 aa

Start of Pairwise alignments

Aligning...

Sequences (1:2) Aligned. Score: 58

Start of Multiple Alignment

There are 1 groups

Aligning...

Group 1: Sequences: 2 Score:3364

Alignment Score 1226

CLUSTAL-Alignment file created [baax0ayYk.aln]

CLUSTAL W (1.7) multiple sequence alignment

1601793CD1 -MDLRQFLMCLSLCTAFALS---KPTEKKDRVHH-EPQLSDKVHNDASFDYDHDAFLGA  
g220582 MARGGRLGLALGLLLALVLALRAKPTVRKERVVRPDSELGERPPEDNQSFQYDHEAFLGK  
:::.\*.\* \*::: \*\*\* :\*\*\* : :.:\*.: : \* \*\*\*:\*\*\*:\*\*\*

1601793CD1 EEAKTFDQLTPEESKERLGKIVSKIDGDKDGFVTVDDELKDWIKFAQKRWIYEDVERQWKG  
g220582 EDKTFDQLSPDESKERLGKIVDRIDSDGDGLVTTEELKLWIKRVQKRYIYDNVAKVWKD  
\*::\*\*\*\*\*:\*\*\*\*\*:\*\*\*.\* \*::\*.:\*\*\* \*\*\* .\*\*\*:\*\*\*: \* : \*\*.

1601793CD1 HDLNEDGLVSWEYKQATYGYVLDDP---DPDDGFNYKQMMVRDERRFKMADKDGDLIA  
g220582 YDRDKDEKISWEYKQATYGYLGNPAEFHDSSDHHTFKKMLPRDERRFKASDLGDGLTA  
:\* :.\* :\*\*\*\*\*:\*\*\*\*\* \*.:\* \*..\* ..:\*\*\*: \*\*\*\*\* :\* \*\*\*\*\*

1601793CD1 TKEEFTAFHLHPEEYDYMKDIVVQETMEDIDKNADGFIDLEEYIGDMYSHDGNTDEPEWVK  
g220582 TREEFTAFHLHPEEFHMKIIVVLETLEDIDKNGDGFVDQDEYIADMFSHEDNGPEPDVVL  
\*::\*\*\*\*\*:\*\*\*:\*\*\* \*::\*\*\*\*\*.\*\*\*:\* :\*\*\*.\*\*\*:\*\*\*.\* \*\*:\*

1601793CD1 TEREQFVEFRDKNRDGKMDKEETKDWILPSDYDHAEAEARHLVYESDQNKDGKLTKEEIV  
g220582 SEREQFNDFRDLNKGKLDKDEIRHWILPDQYDHAQAEARHLVYESDKNKDEMLTKEEIL  
:\*\*\*\*\* :\*\*\* \*::\*\*\*:\*\*\*: \*.:\*\*\*\*\*.\*\*\*\*\*:\*\*\*\*\*:\*\*\* \*\*\*\*\*:

1601793CD1 DKYDLFVGSQATDFGEALVR-HDEF  
g220582 DNWNMFVGSQATNYGEDLTKNHDEL



## Sequence Revision History

PubMed	Nucleotide	Protein	Genome	Structure	PMC	Taxonomy	OMIM	Books
<b>Find</b> (Accession, GI number or Fasta style SeqId) <input type="text"/>								<b>Go</b>
<b>Clear</b>								

Search for Genes

Entrez Nucleotide

Revision history for "D13003"			
GI	Version	Update Date	Status
220581	1	<a href="#">Jul 25 2002 14:17</a>	Live
220581	1	<a href="#">Sep 8 1999 19:10</a>	Dead
220581	1	<a href="#">Mar 17 1999 21:53</a>	Dead
220581	1	<a href="#">Jun 5 1997 14:48</a>	Dead
220581	1	<a href="#">Apr 29 1993 10:48</a>	Dead

Accession D13003 was first seen at NCBI on Apr 29 1993 10:48

Related resources

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[NCBI](#) | [NLM](#) | [NIH](#)



PubMed	Nucleotide	Protein	Genome	Structure	PMC	Taxonomy	OMIM	Books
Search		Nucleotide	for			Go	Clear	
		Limits	Preview/Index	History	Clipboard	Details		
Display	default	Show:	1	Send to	File	Get Subsequence		

☐ 1: BAA02366. reticulocalbin [M...[gi:220582]

[BLink](#), [Domains](#), [Links](#)

LOCUS BAA02366 325 aa linear ROD 09-SEP-1999  
 DEFINITION reticulocalbin [Mus musculus].  
 ACCESSION BAA02366  
 VERSION BAA02366.1 GI:220582  
 DBSOURCE locus MUSRCAL accession D13003.1  
 KEYWORDS  
 SOURCE Mus musculus (house mouse)  
 ORGANISM Mus musculus

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.

REFERENCE 1 (residues 1 to 325)  
 AUTHORS Ozawa,M. and Muramatsu,T.  
 TITLE Reticulocalbin, a novel endoplasmic reticulum resident  
 Ca(2+)-binding protein with multiple EF-hand motifs and a  
 carboxyl-terminal HDEL sequence

JOURNAL J. Biol. Chem. 268 (1), 699-705 (1993)

MEDLINE 93107083

PUBMED 8416973

REFERENCE 2 (residues 1 to 325)

AUTHORS Ozawa,M.

TITLE Direct Submission

JOURNAL Submitted (23-AUG-1992) Masayuki Ozawa, Faculty of Medicine,  
 Kagoshima University, Department of Biochemistry; 8-35-1  
 Sakuragaoka, Kagoshima, Kagoshima 890, Japan (Tel:0992-75-5246,  
 Fax:0992-64-5618)

FEATURES Location/Qualifiers  
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 CDS 1..325  
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ORIGIN

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121 ydrdkdekis weeykqatyg yylgnpaefh dssdhhtfkk mlprderfrk asdlgdldta
181 treeftaflh peefehmkei vvletledid kngdgfvdd eyiadmfsh dngpepdwv1
241 sereqfndfr dlndgkldk deirhwilpq dydhaqaear hlvyesdknk demltkeeil
301 dnwnmfvgsg atnygedltk nhdel
    
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Jan 5 2005 10:18:45